Day 109 **C Tier 10-a-day: Model Solutions**

1 Place value

Write down the value of the digit 2 in the number 5247.

The digit 2 is in the hundreds column
2 × 100 = 200
Answer: 200

2 Writing expressions

Femi has n stickers.
Ella has 7 more stickers than Femi.
Write an expression for the number of stickers that Ella has.

7 more than n is n + 7
Answer: n + 7

3 Cost of one item

5 pencils cost £4.00.
Work out the cost of one pencil.

400p ÷ 5 = 80p
Answer: 80p

4 Finish time

A concert begins at 12:05 pm.
It lasts 50 minutes.
At what time does it finish?

Add the minutes: 12:05 pm + 50 minutes = 12:55 pm
Answer: 12:55 pm

5 Substitution

Work out the value of $\frac{q}{5}$ when q = 25.

$\frac{q}{5}$ means q ÷ 5
25 ÷ 5 = 5
Answer: 5

6 Ordering negative numbers

Write these numbers in order, starting with the largest.
6, −1, 8, −4, −6

Use a number line: negative numbers are smaller the further they are from 0
Answer: 8, 6, −1, −4, −6

7 Best buys

Eggs are sold in two packs.
Pack A has 8 and costs £4.80.
Pack B has 3 and costs £2.10.
Which pack is better value?

Pack A: 480p ÷ 8 = 60p each
Pack B: 210p ÷ 3 = 70p each
Pack A is cheaper per item
Answer: Pack A

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8 Reflection on a grid

The point P is drawn on the grid.
P is reflected in the line x = 5.
Write down the coordinates of the image of P.

P is (1, 6)
P is 4 squares to the left of the line, so the image is 4 squares to the right
x-coordinate: 5 + 4 = 9
Answer: (9, 6)

9 Inequalities

n is a whole number.
Write down all the possible values of n when
$2 < n < 5$

n is bigger than 2 and smaller than 5
The smallest whole number is 3 and the largest is 4
Answer: 3, 4

10 Digit cards

Here are four digit cards:
[9] [7] [2] [6]
Use all four cards to make the smallest possible 4-digit number.

Put the smallest digit in the thousands column, then the next smallest, and so on
Answer: 2679